

Central Intelligence Agency



Washington, D.C. 20505

26 JAN 1984

Smith, Hinchman & Grylls Associates, Inc.
455 West Fort Street
Detroit, Michigan 48226

Attention: Mr. Wm. Everett Medling

Gentlemen:

Here is P48's response to the Special Space questionnaire for information on their computer and mensuration rooms in the new building, giving selected requirements and some background data.

1. Computer Room

- Normal office air and cleanliness conditions are sufficient.
- Equipment does not generate significant heat.
- Room will have four, and possibly five, medium speed HETRA printers. Each uses 115 volts, 60HZ, 10 amps. One of the three also requires a 115 volt "line driver."
- Room may have as many as five CRT terminals, each using 115 volts, 60 HZ, 3 amps.

2. Mensuration Room

- Assuming that the room will be 45 feet by 20 feet, enclosure 1 is a revised layout for the mensuration equipment drawn to scale. We no longer have the Mann comparator which was included in previous drawings. The equipment labeled "INDEX/INTERGRAF" is a planned computer graphics system whose requirements have not yet been defined.
- The heaviest device is the McBain Stereo. This device sits on a 7 by 13 foot on-half inch thick steel plate. The plate weighs approximately one ton, and the mensuration device weighs 6 tons. Under the steel plate is a poured latex leveling cushion approximately one-half inch thick. The mensuration device sits on five pedestals each 8 inches by 10 inches. According to our calculations, floor loading without the plate would be approximately 30 pounds per square inch or 4,320 pounds per square foot.
- Electrical and mechanical requirements for each of the three mensuration devices and other necessary equipment is provided in enclosure 2. Please ensure that electric power to the mensuration devices is filtered to provide the "noise-free" power typical for computer room applications.

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Soundproofing is not required for the mensuration room. All doors must be self-closing, with a positive latch. The doors must also be "sealable" in that they assist in the maintenance of a controlled environment (temperature, humidity, and cleanliness) in the room as has been indicated in previous requirements. It is vital that the environmental system for this room be "stand alone," separate from any system that controls the office space environment. Operational priority should be given to this system as it would to any sophisticated computer room system.

Of the two fire suppression systems which have been offered for the mensuration room, P48 prefers one with flow control heads which would automatically shut off after extinguishing a fire and cooling the room.

Sincerely,



New Building Project Office

Enclosures:
As Stated

Enclosure 2

Electrical and Mechanical Requirements - P48

1. McBain Stereo Mensuration Device - four dedicated electrical circuits. Two 120 volt, single phase 50 amp circuits and two 120 volt single phase 20 amp circuits.
2. McBain Hydrostatic Mensuration Device - four dedicated electrical circuits, each 120 volts, single phase, 20 amps.
3. RSS-600 Mensuration Device - two dedicated electrical circuits, each 120 volts, single phase, 20 amps.
4. Computer terminals (CRTs) - we require a total of three terminals for the three mensuration devices. All three can operate on a single dedicated 120 volt, 20 amp circuit.
5. High speed printer and drum plotter - these two devices can operate on a single dedicated 120 volt, 20 amp circuit.